IN THE CLAIMS

Please amend the claims as follows:

1-41. (Cancelled)

42. (Currently Amended) A method for encoding of a n-channel digital audio signal, where n is an integer larger than 1, comprising the steps of:

encoding each channel signals of the n-channel digital audio signal so as to obtain an encoded channel signal for each of said channel signals in response to probability values for each of said channel signals $\tau \pm$

carrying out a prediction filtering on each of said channel signals in response to a set of prediction filter coefficients for each of said channel signals so as to obtain a prediction filtered channel signal from each of said channel signals $\tau_{\vec{L}}$

generating a set of prediction filter coefficients for each of said channel signals $_{\mathbb{P}_{\mathcal{L}}}$

generating probability values for each of said channel signals in response to a probability table for each of said channel signals and the corresponding prediction filtered channel signal for each of said channel signals $\tau_{.L}$

generating first mapping information and a plurality of m sets of prediction filter coefficients, where m is an integer for which holds $1 \le m \le n$, said first mapping information and m sets of prediction filter coefficients being representative of said n sets of prediction filter coefficients for said n channels, and for j generating second mapping information and a plurality of p probability tables, where p is an integer for which holds $1 \le p \le n$, said second mapping information and p probability tables being representative of said n probability tables for said n channels, and

combining said first and second mapping information signals, said plurality of m sets of prediction filter coefficients and said plurality of p probability tables into a composite information signal.

43. (Currently Amended) A method for encoding a n-channel digital audio signal, where n is an integer larger than 1, comprising the steps of:

encoding time equivalent signal blocks of each channel signals of the n-channel digital audio signal by dividing the time equivalent signal blocks into M segments, and encoding the signal portions of the channel signals in all M segments in said time equivalent signal blocks, so as to obtain an encoded signal portion for each of said signal portions in said M segments in response to probability values for each of said signal portions, where M =

 $\sum_{i=0}^{j\pm 1} sp_{i\perp}$ and sp_i is the number of segments in the time equivalent signal block of the i-th channel signal—i

generating probability values for each of said M signal portions in response to a probability table for each of said M signal portions τ_L

converting the information about the length and locations of the M segments in the n channel signals into first segment information, and for—generating first mapping information and a plurality of m probability tables, where m is an integer for which holds $1 \le m \le M$, said first mapping information and said m probability tables being representative for said M probability tables $rice{t}$; and

combining said time equivalent signal blocks, said first segment information, said first mapping information signal and said plurality of m probability tables into a composite information signal.

44. (Currently Amended) The method as claimed in claim 43, wherein said method further comprising comprises the steps of:

prediction—predicting time equivalent signal blocks for each of said channel signals by dividing the time equivalent signal blocks into segments, and prediction filtering the signal portions of the channel signals in all P segments in said time equivalent

signal blocks, so as to obtain a prediction filtered signal portion for each of said P signal portions in response to a set of prediction filter coefficients for each of said signal portions,

where P = $\sum_{i=0}^{l_{2}s-1} sf_{i}$ and $\mathrm{sf}_{\hat{\mathbf{1}}}$ is the number of segments in the time

equivalent signal block of the i-th channel signal τ_{λ}

generating a set of prediction filter coefficients for each of said P signal portions τ_{ℓ} .

converting the information about the length and locations of the P segments in the n channel signals into second segment information, and for generating second mapping information and a plurality of p sets of prediction filter coefficients, where p is an integer for which holds $1 \le p \le P$, said second mapping information and said p sets of prediction filter coefficients being representative of said P sets of prediction filter coefficients r_i and

combining said second segment information, said second mapping information signal and said plurality of p sets of prediction filter coefficients into said composite information signal.

blocks for the probability tables is different from the segmentation of the time equivalent signal blocks for the sets of prediction filter coefficients and of a second value indicating that the segmentation of the time equivalent signal blocks for the probability tables is the same as for the prediction filter coefficients—:_and—fer

____supplying only one of the first or the second segment information in the latter case,

wherein the combining means being adapted to combinestep combines the first indicator word and the only one of the first segment information or the second segment information into said composite information signal, in the case that the first indicator word has the second value.

- 46. (Previously Presented) The method of Claim 45, wherein said only one of the first or second segment information is generated if the first indicator word has the second value.
- 47. (Currently Amended) The method as claimed in claim 44, wherein said method further comprising comprises the step of:

 generating a second indicator word (w₂) of a third value indicating that the time equivalent signal blocks all have the same segmentation for the sets of prediction filter coefficients, and is adapted to generate a second indicator word of a fourth value indicating that the time equivalent signal blocks have each a

different segmentation for the sets of prediction filter coefficients.

wherein that the converting means is adapted to generatested generates second segment information for only one time equivalent signal block in the case that the second indicator word has the third value, and is adapted to generategenerates second segment information for each of the time equivalent signal blocks in the case that the second indicator word has the fourth value, and that wherein the combining means is further adapted to combinecombines the second indicator word into said composite information signal.

48. (Currently Amended) The method as claimed in claim 43, wherein the method further comprising comprises the step of:

generating a third indicator word (w₃) of a fifth value indicating that the time equivalent signal blocks all have the same segmentation for the probability tables, and is adapted to generate a third indicator word of a sixth value indicating that the time equivalent signal blocks have each a different segmentation for the probability tables, that wherein the converting means is adapted to generatestep generates first segment information for only one time equivalent signal block in the case that the third indicator word has the fifth value, and is adapted to generate generates first segment information for each

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of the time equivalent signal blocks in the case that the third indicator word has the sixth value, and that wherein the combining

means is further adapted to combinestep combines the third indicator word into said composite information signal.

50. (Currently Amended) The method as claimed in claim 44, wherein the method further comprising comprises the step of:

generating a fifth indicator word (w₅) of a ninth value indicating that the time equivalent signal blocks all have the same mapping information for the sets of prediction filter coefficients, and is adapted to generate a fifth indicator word of a tenth value indicating that the time equivalent signal blocks have each a

different mapping information for the sets of prediction filter coefficients,—that

wherein the converting means is adapted to generatestep generates second mapping information for only one time equivalent signal block in the case that the fifth indicator word has the ninth value, and is adapted to generategenerates second mapping information for each of the time equivalent signal blocks in the case that the fifth indicator word has the tenth value, and that wherein the combining means is further adapted to combinestep combines the fifth indicator word into said composite information signal.

- 52. (Previously Presented) The method as claimed in claim 51, wherein said number code satisfies the following table:

S	code(S)
1	1
2	01
3	001

4	0001
s	0 (8-1) 1

where S is the number of segments in a time equivalent signal block of a channel signal.

- 53. (Previously Presented) The method as claimed in claim 44, wherein the first set of prediction filter coefficients is allocated to the first of said P segments, said second mapping information being devoid of mapping information for mapping said first set of prediction filter coefficients to said first segment of said P segments,
- (a) the first bit in said second mapping information indicating whether the set of prediction filter coefficients for the second segment is the first set of prediction filter coefficients or a second set of prediction filter coefficients.
- (b1) if the first set of prediction filter coefficients is also the set of filter coefficients for the second segment, then the second bit in said second mapping information indicating whether the set of prediction filter coefficients for the third segment is the first set of prediction filter coefficients or the second set of prediction filter coefficients,
- (b2) if the second set of prediction filter coefficients is the set of filter coefficients for the second segment, then the next two bits in the second mapping information indicating whether the set

of prediction filter coefficients for the third segment is the first, the second or the third set of prediction filter coefficients,

- (c1) if the first set of prediction filter coefficients is the set of filter coefficients for the second and third segment, then the third bit of said second mapping information indicates whether the set of prediction filter coefficients for the fourth segment is the first or the second set of prediction filter coefficients,
- (c2) if the first set of prediction filter coefficients is the set of filter coefficients for the second segment and the second set of prediction filter coefficients is the set of filter coefficients for the third segment, then the third and fourth bit in said second mapping information indicating whether the set of prediction filter coefficients for the fourth segment is the first, the second or the third set of prediction filter coefficients,
- (c3) if the second set of prediction filter coefficients is the set of filter coefficients for the second segment, and the first or the second set of filter coefficients is the set of filter coefficients for the third segment, then the fourth and fifth bit in the second mapping information indicating whether the set of prediction filter coefficients for the fourth segment is the first, second or the third set of prediction filter coefficients,
- (c4) if the second set of prediction filter coefficients is the set of filter coefficients for the second segment, and the third set of filter coefficients is the set of prediction filter coefficients for the third segment, then the fourth and fifth bit in the second

mapping information indicating whether the set of prediction filter coefficients for the fourth segment is the first, second, third or the fourth set of filter coefficients.

- 54. (Previously Presented) The method as claimed in claim 43, wherein the first probability table is allocated to the first of said M segments, said first mapping information being devoid of mapping information for mapping said first probability table to said first segment of said M segments,
- (a) the first bit in said first mapping information indicating whether the probability table for the second segment is the first probability table or a second probability table,
- (b1) if the first probability table is also the probability table for the second segment, then the second bit in said first mapping information indicating whether the probability table for the third segment is the first probability table or the second probability table,
- (b2) if the second probability table is the probability table for the second segment, then the next two bits in the first mapping information indicating whether the probability table for the third segment is the first, the second or the third probability table, (c1) if the first probability table is the probability table for the second and third segment, then the third bit of said first mapping information indicates whether the probability table for the fourth segment is the first or the second probability table,

- (c2) if the first probability table is the probability table for the second segment and the second probability table is the probability table for the third segment, then the third and fourth bit in said first mapping information indicating whether the probability table for the fourth segment is the first, the second or the third probability table,
- (c3) if the second probability table is the probability table for the second segment, and the first or the second probability table is the probability table for the third segment, then the fourth and fifth bit in the first mapping information indicating whether the probability table for the fourth segment is the first, second or the third probability table,
- (c4) if the second probability table is the probability table for the second segment, and the third probability table is the probability table for the third segment, then the fourth and fifth bit in the first mapping information indicating whether the probability table or the fourth segment is the first, second, third or the fourth probability table.
- 55. (Currently Amended) A method for decoding a composite information signal comprising encoded data of a n-channel digital audio signal and side information having a relationship with the encoded data, comprising the steps of:

retrieving said encoded data and side information from said composite information signal $_{7 \perp}$

decoding the encoded data so as to obtain n channel signals in response to a set of probability values for each of said channel signals,— $\underline{\iota}$

carrying out a prediction filtering on each of said channel signals in response to n sets of prediction filter coefficients, one set for each of said channel signals, so as to obtain a prediction filtered channel signal from each of said channel signals, said sets of prediction filter coefficients being derived from said side information τ_L

generating n sets of probability values, one for each of the channel signals in response to a corresponding prediction filtered channel signal and corresponding probability table, said n probability tables, one for each of the channel signals, being derived from said side information T_L .

retrieving first and second mapping information, a plurality of m sets of prediction filter coefficients and a plurality of p probability tables from said side information τ_{L} .

reconverting said first mapping information and said m sets of prediction filter coefficients into n sets of prediction filter coefficients, one set for each of said channel signals, where m is an integer for which holds $1 \le m \le n_{7-j}$ and for _____reconverting said second mapping information and said p probability tables into n probability tables, one set for each of said channel signals, where p is an integer for which holds $1 \le p \le n$.

56. (Currently Amended) A method for decoding a composite information signal comprising encoded data of a n-channel digital audio signal and side information having a relationship with the encoded data, where n is an integer larger than 1, comprising the steps of:

retrieving said encoded data and side information from said composite information ${\rm signal}_{\tau,\underline{t}}$

decoding said encoded data into M signal portions in response to corresponding sets of probability values, one for each of said M signal portions, where M = $\sum_{i=0}^{l_{m-1}} sp_i$ and sp_i is the number of segments in the time equivalent signal block of the i-th channel signal,—i.

generating M sets of probability values, one for each of the M signal portions in response to a corresponding probability table, said M probability tables, one for each of the signal portions, being derived from said side information.

retrieving first segment information and first mapping information and a plurality of m probability tables from said side information, where m is an integer for which holds 1 \leq m \leq M $_{T,L}$

reconverting said first mapping information and m probability tables into M probability tables, one for each of said signal portions,—; and—for

_____reconverting said first segment information into information about the length and locations of the M segments in the

n channel signals so as to obtain time equivalent signal blocks in said n channel signals.

- 57. (Currently Amended) The method as claimed in claim 5756, wherein said method further comprising comprises the step of:

 _____outputting the time equivalent signal blocks of said n channel signals.
- 58. (Currently Amended) The method as claimed in claim 56, wherein said method further comprising comprises the steps of: carrying out a prediction filtering on said time equivalent signal blocks of each of said channel signals by dividing the time equivalent signal blocks into segments, and prediction filtering the signal portions of the channel signals in all P segments in said time equivalent signal blocks and for all n channel signals, so as to obtain a prediction filtered signal portion for each of said P signal portions in response to a set of prediction filter coefficients for each of said signal portions, where $P = \sum_{i=0}^{\lfloor s-1} g_i^i$ and sf_i is the number of segments in the

time equivalent signal block of the i-th channel $\operatorname{signal}_{\mathcal{T}_{+}^{2}}$

retrieving second segment information, second mapping information and p sets of prediction filter coefficients from said side information, where p is an integer for which holds 1 \leq p \leq P $_{\tau}$ $_{\perp}$

١	reconverting the second segment information into
1	information $\ $ about the length and locations of the P segments in
١	the n channel signals; and $\pounds o \varepsilon$
	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
١	into $\mbox{\ensuremath{P}}$ sets of prediction filter coefficients, one for each of said
	P signal portions, using said second mapping information.
١	59. (Currently Amended) Apparatus The method as claimed in
	claim 58, wherein said method further comprising comprises the
	steps_of:
	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
١	information, said first indicator word, when being of a first
	value, indicating that the segmentation of the time equivalent
	signal blocks for the probability tables is different from the
	segmentation of the time equivalent signal blocks for the
	prediction filter coefficients, and when being of a second value,
	indicating that the segmentation of the time equivalent signal
	blocks for the probability tables is the same as for the prediction ${\bf r}$
١	filter coefficients——and for
	retrieving one segment information only from the side
	information in the latter case, the reconverting means further
	being adapted to copy the said segment information so as to obtain $% \left(1\right) =\left(1\right) \left(1\right) $
	the first and second segment information, in the latter case.

60. (Currently Amended) The method as claimed in claim 58, wherein said method further comprising comprises the step of:

retrieving a second indicator word (w₂) from said side information, said second indicator word, when being of a third value, indicating that the time equivalent signal blocks all have the same segmentation for the prediction filter coefficients and, when being of a fourth value, indicating that the time equivalent signal blocks have each a different segmentation for the prediction filter coefficients, the said retrieval means further being adapted to retrieverstrieving step retrieving second segment information for only one time equivalent signal block from the side information in the case that the second indicator word has the third value, and is adapted to retrieverstrieving second segment information for each of the time equivalent signal blocks in the case that the second indicator word has the fourth value, wherein the reconverting means being further adapted to copystep

copies the second segment information n-1 times so as to obtain the P segments of the time equivalent signal blocks of all n channel signals, in the case that the second indicator word has the third value.

61. (Currently Amended) The method as claimed in claim 58, wherein the retrieval means is adapted to retrieveretrieving step retrieves a third indicator word (w₃) from said side information, said third indicator word, when being of a fifth value, indicating that the time equivalent signal blocks all have the same segmentation for the probability tables, and when being of a sixth

value, indicating that the time equivalent signal blocks have each a different segmentation for the probability tables, that the retrieval means is further adapted to retrievesaid retrieving step retrieving first segment information for only one time equivalent signal block in the case that the third indicator word has the fifth value, and is adapted to retrieveretrieving first segment information for each of the time equivalent signal blocks in the case that the third indicator word has the sixth value, and that wherein the reconverting means is further adapted to copystep copies the first segment information for said one time equivalent signal block n-1 times so as to obtain the M segments of the time equivalent signal blocks of all the n channel signals, in the case that the third indicator word has the fifth value.

in the latter casecase the fourth indicator word has the eighth value,

wherein the reconverting means being further adapted to copysten copies the mapping information retrieved in the case that the fourth indicator word has the eighth value.

63. (Currently Amended) The method as claimed in claim 58, wherein the method further comprises comprises the step of: retrieving a fifth indicator word (ws) from said side information, said fifth indicator word, when being of a ninth value, indicating that the time equivalent signal blocks all have the same mapping information for the prediction filter coefficients, and- when being of a tenth value, indicating that the time equivalent signal blocks have each a different mapping information for the prediction filter coefficients, that the retrieval means are further adapted to retrievesaid retrieving step retrieving second mapping information for only one time equivalent signal block in the case that the fifth indicator word has the ninth value, and is adapted to retrieveretrieves second mapping information for each of the time equivalent signal blocks in the case that the fifth indicator word has the tenth value.

number code representing the number of segments in said time equivalent signal block.

65. (Previously Presented) The method as claimed in claim 64, wherein said number code satisfies the following table:

S	code(S)
1	1
2	01
3	001
4	0001
s	0(8-1)1

where S is the number of segments in a time equivalent signal block of a channel signal.

66. (Currently Amended) A record carrier, comprising:

a composite information signal generated by the following: encoding channel signals of an n-channel digital audio signal so as to obtain an encoded channel signal for each of said channel signals in response to probability values for each of said channel signals, where n is an integer larger than $1_{7\dot{L}}$

carrying out a prediction filtering on each of said channel signals in response to a set of prediction filter coefficients for each of said channel signals so as to obtain a prediction filtered channel signal from each of said channel signals $r_{\hat{L}}$

generating a set of prediction filter coefficients for each of said channel signals _ τ_{L}

generating probability values for each of said channel signals in response to a probability table for each of said channel signals and the corresponding prediction filtered channel signal for each of said channel signals $\tau_{t,k}$

generating the probability tables for each of said channel $\label{eq:signals} \text{signals}_{\mathcal{T}_{\mathcal{L}}^{\perp}}$

combining said first and second mapping information signals, said plurality of m sets of prediction filter coefficients and said plurality of p probability tables into the composite information signal.

67. (Currently Amended) A record carrier, comprising:

a composite information signal generated by the following:

encoding time equivalent signal blocks of each channel signals of the-an_n-channel digital audio signal by dividing the time equivalent signal blocks into M segments, where n is an integer larger than 1, and encoding the signal portions of the channel signals in all M segments in said time equivalent signal blocks, so as to obtain an encoded signal portion for each of said signal portions in said M segments in response to probability

values for each of said signal portions, where $\mathbf{M} = \sum_{i=0}^{p_{i-1}} sp_{i\perp}$ and sp_{1} is the number of segments in the time equivalent signal block of

the i-th channel signal—:

generating probability values for each of said M signal

portions in response to a probability table for each of said M signal portions _-:__

generating the probability tables for each of said M signal portions __i_

converting the information about the length and locations of the M segments in the n channel signals into first segment information, and for generating first mapping information and a plurality of m probability tables, where m is an integer for which holds $1 \le m \le M$, said first mapping information and said m probability tables being representative for said M probability tables $_{7}$; and

combining said time equivalent signal blocks, said first segment information, said first mapping information signal and said \mid plurality of m probability tables into a-the composite information signal.